

AMENDMENTS TO THE CLAIMS

1-8. (Cancelled)

9. (Currently Amended) An isolated polynucleotide ~~encoding~~ comprising the sequence of SEQ ID NO: 1, said polynucleotide encodes a secretory or membrane-binding chimeric protein composed of an energy-generating protein and an energy-receiving protein linked to one another wherein energy transfer can arise between the energy-generating protein and the energy-receiving protein, ~~or a complementary chain thereof~~, wherein the chimeric protein is composed of *Vargula* luciferase ~~or Cypridina luciferase~~ and YFP ~~and wherein the polynucleotide encoding a chimeric protein composed of Vargula luciferase and YFP comprises the sequence of SEQ ID NO: 1.~~

10. (Original) A vector comprising the polynucleotide according to claim 9.

11. (Original) A transformant transformed with the vector according to claim 10.

12. (Original) A method for producing a secretory or membrane-binding chimeric protein ~~including a step of~~ comprising culturing the transformant ~~according to~~ of claim 11 in a medium, and ~~a step of~~ collecting the secretory or membrane-binding chimeric protein from the medium.

13-16. (Cancelled)

17. (Previously Presented) The polynucleotide according to claim 9, ~~wherein~~ further comprising a monitor peptide ~~is introduced~~ between luciferase and YFP or inside the luciferase or inside the YFP ~~so as to~~ retain an energy-generating property or an energy-receiving property, and the energy transfer is inhibited by cleaving the monitor peptide.

18. (Currently Amended) An isolated polynucleotide encoding a chimeric protein comprising the sequence of SEQ ID NO: 1.

19. (New) An isolated polynucleotide encoding a secretory or membrane-binding chimeric protein composed of an energy-generating protein and an energy-receiving protein linked to one another wherein energy transfer can arise between the energy-generating protein and the energy-receiving protein, wherein the chimeric protein is composed of *Cypridina* luciferase and YFP and wherein a polynucleotide encoding *Cypridina* luciferase is isolated from *Cypridina noctiluca*.